

**Notice of Allowability**

Application No.

10/692,473

Examiner

Thanh Y. Tran

Applicant(s)

WU ET AL

Art Unit

2822

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☒ The drawings filed on 22 October 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_.

  
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**DETAILED ACTION**

***Allowable Subject Matter***

1. Claims 1-15 are allowed.
2. The following is a statement of reasons for the indication of allowable subject matter:

Claim 1 recites, inter alia, “a process of packing an organic electroluminescent panel, the electroluminescent panel comprising a transparent substrate, a plurality of cathodes formed on the organic electroluminescent layer, at least a portion of cathodes exposes the connecting area, a protective layer having a plurality of first openings formed on the transparent substrate, wherein the first openings expose the connecting area and a portion of the cathodes, the process comprising the steps of: providing a printed circuit board having a plurality of bumps on the bonding pads; forming a filler on the printed circuit board; disposing at least organic electroluminescent panel on the printed circuit board; and crosslinking the filler”; in the combination with other claimed features.

Claim 4 recites, inter alia, “a method of forming an organic electroluminescent panel, comprising the steps of: providing a transparent substrate; forming a plurality of cathodes on the organic electroluminescent layer, wherein at least a portion of cathodes exposes the connecting area; forming a protective layer on the transparent substrate, wherein the protective layer comprises a plurality of first openings and wherein the first openings expose the connecting area and a portion of the cathodes”; in the combination with other claimed features.

The art of record does not disclose the above limitations, nor would it be obvious to modify the art of record so as to include the above limitations.

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3. Although Wu (U.S. 6,727,519) discloses an apparatus and a corresponding method of packing an organic electroluminescent panel comprising the steps of: providing a transparent substrate 300; a plurality of anodes 302, each anode has driving area 302a and at least connecting area ("contact region" 302b) connected to driving area; a patterned electroluminescent layer ("organic light emitting layer" 304) formed on the transparent substrate 300, the patterned organic electroluminescent layer exposes the connecting area ("contact region" 302b). However, Wu (U.S. 6,727,519) does not disclose the method comprising the steps of: forming a filler on the printed circuit board; crosslinking the filler; forming a plurality of cathodes on the organic electroluminescent layer, wherein at least a portion of cathodes exposes the connecting area; forming a protective layer on the transparent substrate, wherein the protective layer comprises a plurality of first openings and wherein the first openings expose the connecting area and a portion of the cathodes.

Wei et al (U.S. 5,747,363) teaches a method of fabricating an integrated electro-optical package comprising an organic device, Kusuda et al (U.S. 6,496,973) teaches a method of designing a mask pattern for a self scanning light-emitting device, and Kawashima (U.S. 6,621,213) teaches an organic electroluminescence device comprising an organic electroluminescence light emitting film formed over a portion of the transparent electrode film, however they do not teach the above mentioned limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

**Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Y. Tran whose telephone number is (571) 272-2110. The examiner can normally be reached on M-F (9-6:30pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on (571) 272-1852. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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